



# PVS 4120 Portable Samplers

*Easy-to-use, Accurate, Durable, Dependable*

Portable sampling has never before been so easy! The PVS 4120 is the lightest sampler ever, weighing in at a mere *23 pounds!*\* These samplers are compact, yet maintaining the same, reliable, long-lasting vacuum technology as the stationary samplers which SIRCO is renowned for. The vacuum system of sampling results in accurate and dependable results, even with high sediment content or rapid velocities at the sample source. The PVS 4120 portable model features composite or discrete sampling and a programmable controller with 16-key intuitive touchpad.

The pump in the PVS 4120 is smaller than the larger models, which also requires a much smaller battery (4 pounds as opposed to 15), lightening the total weight even more. The light-weight pump is able to take samples at over 5 ft/sec for horizontal draws of up to 25 feet, and exceeds 2.5 ft/sec in the first 15 feet of vertical.

A rugged design and precision in construction give these portable samplers the ability to be set up in one location over time, yet they are easily transportable.

The enclosure of the PVS 4120 is a molded medium-density linear polyethylene, designed to handle tough environmental challenges and weathering. The hub has an insulated ring and a cavity for crushed ice, giving more control over the temperature of the samples.

\* Weight does not include 4 Lbs battery.



## THE LIGHTEST AUTOMATIC SAMPLER ON THE BLOCK\*

### Features

- Controller housed in an environmentally sealed enclosure for corrosion protection, and all information is easily controlled and viewable on a 2x16 character backlit LCD.
- Rapid transport velocities of samples, meaning more accurate samples, even of solids over high lifts.
- Composite or discrete sampling.
- Optional hand cart / tilt wheel assembly for easy transport.
- Optional Stainless Steel Suspension harness, for sampling in sewer systems.
- Side handles for easy lifting.
- Three-year warranty.

\* At 23 Lbs. plus 4 Lbs. battery, the PVS 4120 is the lightest automatic sampler than can take discrete samples in a cooled environment over time.



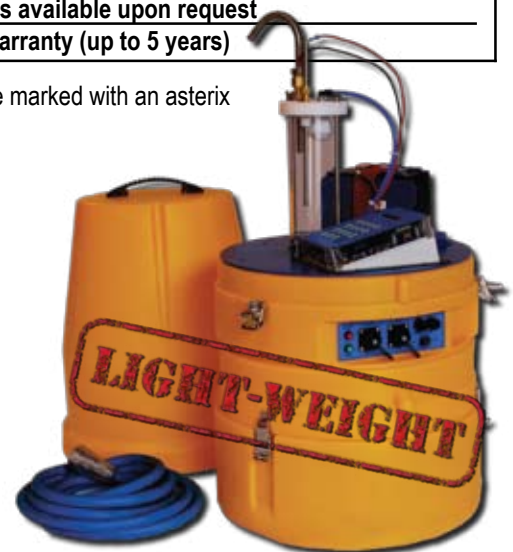
# SIRCO PVS 4120 PORTABLE SAMPLER

Sampler		Vacuum System	
<b>Height</b>	31.875 inches      809 mm	<b>Pinch Valve</b>	Fixed – normally open
<b>Height (extended base)</b>	37.875 inches      962 mm	<b>Purge Cycle</b>	Adjustable – 5 to 99 seconds
<b>Body Case Diameter</b>	16.85 inches      428 mm	<b>Suction cycle</b>	Variable – adjusts automatically to double the input value of the purge time setting or until liquid contacts level electrode in metering chamber
<b>Weight (without battery)</b>	23 lbs      10.4 kg	<b>Sample Volume</b>	Adjustable, 50cc to 500cc
<b>Enclosure</b>	Molded medium density linear polyethylene, 3 piece construction and all SS fittings.	<b>Sample Transport Velocity</b>	<b>Vertical:</b> 2.7 ft/s at 15 ft of lift Max vertical 18 ft (5.5m) <b>Horizontal:</b> 4 ft/s at 100 ft Max horizontal > 2.5 ft/s: 220 ft (67m)
<b>Supply Voltage</b>	<b>Integral Battery:</b> 12 Vdc 7 AH (4 lbs) <b>External receptacle:</b> 12 Vdc * 120 Vac/12 Vdc with external battery charger and power cable	<b>Metering Chamber</b>	Acrylic 500cc, 100cc calibration * Pyrex 500cc, 100cc calibration
<b>Cooling System</b>	Insulated container wall Cavity space for ice	<b>Metering Chamber Cover</b>	Nylon * Reinforced Teflon top
Controller		<b>Volume Control Tube</b>	316 stainless steel
<b>Display</b>	2x16 character backlit LCD	<b>Metering Chamber Level</b>	316 stainless steel
<b>Touchpad</b>	16-key, calculator-type with multi-level menus	<b>Electrode</b>	
<b>Start Delay</b>	Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control	<b>Intake Hose</b>	Nylon reinforced PVC (3/8"ID by 25' c/w sinker)
<b>Sample Initiation</b>	Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact	<b>Discharge Hose</b>	Latex, 3/8" ID * Silicone, 3/8" ID
<b>Program Type</b>	Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step	<b>Sample Containers (Composite)</b>	* 2.3 US Gallon (9 L) HDPE * 2.3 US Gallon (9 L) PP * 2.5 US gallon (10 L) glass (ext. base)
<b>Clock</b>	Real Time clock & operating system	<b>Sample Containers (Discrete)</b>	24 Bottles x 500cc (1/2 L) PP * 24 x 1000cc (1 L) PP (ext. base) * 8 Bottles x 1 L glass
<b>Direct Function Keys</b>	Manual sample; Manual purge; Manual bottle advance; Restart	Options	
<b>Switches</b>	Controller "on/off" (SPST toggle)	<b>Extra Battery</b>	12Vdc 7AH (4 lbs)
<b>Available displays</b>	Real time clock; Process timing; Process totals; Pulse counting; Event response; Multi-level descriptions; Flashing prompts; Diagnostics	<b>External Charger</b>	For charging in two locations
<b>Automatic displays</b>	Container Full; Fault; Power Interrupt (program resumed); Alternating Time Stamp; Cycle(s) abandoned	<b>Tilt Wheel Assembly</b>	For easy wheeled transport
<b>Backup Power Source</b>	Internal Lithium battery to maintain program settings & info in the case of power failure	<b>Other custom options available upon request</b>	
		<b>Optional extended warranty (up to 5 years)</b>	

\* Optional features are marked with an asterix

## Specifications

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Portable unit will have an enclosure of medium-density linear polyethylene or equivalent. Vacuum system is to include a pressure purge before sampling in order to keep system free from contaminants. Control pad will be able to initiate sampling based on user criteria, including but not limited to 4-20mA, interval time, external contact, and manual override. Sampler to be manufactured in Canada or the United States only, and have a three (3) year warranty. Sampling unit to be a PVS 4120 SIRCO Sampler manufactured by Southwell, or approved equivalent.



**SIRCO** SAMPLERS

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